

Abstract of the Disclosure

An arrangement for performing chromatography with a mobile phase and a chromatographic bed having a stationary phase is provided. The arrangement includes a support assembly configured to support the stationary phase. The support assembly has a sealed cavity configured so that when the support assembly is supporting the stationary phase a portion of the chromatographic bed and the stationary phase extends into the sealed cavity. The arrangement further includes a bladder having a void defined therein. The bladder is positioned within the sealed cavity. The arrangement also includes a fluid positioned within the void of the bladder so that the bladder is urged toward the stationary phase within the sealed cavity. The arrangement further includes an anode positioned in contact with the mobile phase. The arrangement also includes a cathode positioned in contact with the stationary phase, wherein creating an electrical potential between the anode and the cathode causes the mobile phase to be advanced through the chromatographic bed positioned within the sealed cavity. An associated method is also provided.